# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/03/2014 10:19 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/20/2014 10:06 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124306 | -1 | 1.63 | 124091 | 1.63 |
| Blue | F | SSC | 125000 | 122977 | -2 | 2.25 | 123895 | 1.95 |
| Blue | E | FITC | 17374 | 16617 | -5 | 2.28 | 934 | 8.28 |
| Blue | D | PE | 22653 | 21903 | -4 | 1.93 | 990 | 7.62 |
| Blue | B | PerCP-Cy5-5 | 64987 | 63918 | -2 | 2.54 | 1692 | 12.23 |
| Blue | A | PE-Cy7 | 74081 | 72617 | -2 | 3.55 | 956 | 22.86 |
| Red | C | APC | 61430 | 60356 | -2 | 2.67 | 3415 | 7.87 |
| Red | A | APC-Cy7 | 88289 | 87084 | -2 | 2.67 | 1720 | 7.67 |
| Violet | B | V450 | 12535 | 11981 | -5 | 2.76 | 741 | 6.90 |
| Violet | A | V500 | 47468 | 45618 | -4 | 2.34 | 2576 | 4.83 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20255 | 4.20 | 578 | -1 | N/A | N/A | Pass |
| Blue | F | SSC | 61552 | 1.35 | 493 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 103 | 31.90 | 509 | 0 | 0.0288 | 5 | Pass |
| Blue | D | PE | 206 | 22.52 | 502 | 1 | 0.1865 | 100 | Pass |
| Blue | B | PerCP-Cy5-5 | 206 | 36.60 | 582 | 2 | 0.0127 | 0 | Pass |
| Blue | A | PE-Cy7 | 73 | 90.02 | 639 | 2 | 0.0176 | 10 | Pass |
| Red | C | APC | 320 | 25.22 | 571 | 1 | 0.0229 | 10 | Pass |
| Red | A | APC-Cy7 | 110 | 35.94 | 547 | 1 | 0.0052 | 672 | Pass |
| Violet | B | V450 | 78 | 38.31 | 447 | -2 | 0.0680 | 2225 | Pass |
| Violet | A | V500 | 169 | 18.53 | 476 | -2 | 0.0192 | 3 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.34 | -31.14 | 0.88 |
| Blue | 20.47 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.31 |
| Red | 16.12 | 13.07 - 19.61 | N/A | N/A | 31.73 | 31.98 | 1.11 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 11713

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments